

R136 Pinpoint Fluid Detection Sensor

The R136 Pinpoint Fluid Detection Sensor is easily deployed to detect fluid and alert you to the location where a leak occurs along the fluid detection strip



Accuracy within +/- 2 ft



Fast alerting when fluid is present



Flexible lengths - available in 10, 25, and 50 meters



Convenient wire-free solution for fast installation



Detects water and propylene glycol up to (PG50)



Easily correlate assets with segments along the fluid strip



Integrates easily with BMS and DCIM systems

The R136 fluid detection system combines a distance-based technology with a reusable strip to quickly and reliably alert you to the presence and location of fluid. It combines a sensing strip and 433 MHz active RFID communication for true real-time fluid leak location without the wiring hassle.

The R136 stands out by providing ±2 ft leak location accuracy along the strip. It integrates seamlessly with RF Code’s CenterScape platform, so when fluid is detected you immediately see which specific racks or locations are at risk. Combined with RF Code’s asset management solution, the ability to understand exactly what asset might be effected when a fluid leak occurs.

Fluid detection data and alerts can be integrated with common systems like DCIM and BMS via a variety of protocols including Modbus, BACnet, MQTT, and API

The R136 detects all conductive fluids common in data centers – including water-glycol coolant mixes up to 50% propylene glycol.

In modern high-density, liquid-cooled environments, wireless deployment, pinpoint accuracy, and integration give data center operators a superior, faster way to catch fluid leaks and protect critical equipment.

Unlike traditional fluid detection sensors that need “air time” to dry off between fluid incidents, the RF Code film sensor strip can be wiped down and is immediately ready for use again. As a result, there is no fluid leak detection downtime, the period between incidents that typical fluid sensors require to dry off fully before recouping their ability to detect for fluid again. In addition, the amount of fluid presence needed to initiate a fluid leak alert is minimal, thereby reducing response time to an emerging threat.

Like all RF Code sensors, information captured by the sensor is instantly broadcast, providing real-time monitoring and alerting about environmental conditions at a site.

R136 Pinpoint Fluid Detection Sensor Specifications

Operation

Operating Frequency	433.92 Mhz
Typical Transmission Range	> 30 ft. in the data center; up to 300 ft. open field
Emitted Radiated Power	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	SAW stabilized

Enclosure

Case Length	3.5 in (88.9mm)
Case Width	2.5 in (63.5 mm)
Case Height	1.0 in (25.4 mm)
Weight (with sensor)	
10 m	14.3 oz. (405.4 g)
25 m	26.78 oz. (759.2 g)
50 m	47.58 oz. (1,348.87 g)
Wire Length	12 in (304.79 mm)
Construction	Injection-molded polycarbonate enclosure
Durability	Tough, impact resistant and temperature stable
Mounting Options	Industrial-strength adhesive or screw-mountable or zip-tie through mounting holes

Environmental

Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80°C
Sealing	Splash resistant

R136 Pinpoint Fluid Detection Sensor Specifications(continued)

Power

Battery Type	Lithium CR2032 replaceable coin cell
Smart Sensor Feature	Low battery indication
Battery Life	> 5 years (typical)

Sensor Operation

Sample Interval	10 seconds
Accuracy at 10m	.66 m
Accuracy at 25m	1.25 m
Accuracy at 50m	2.5 m

Regulatory

FCC Compliance	FCC Title 47 CFR Part 15; FCC ID: P6FZ
CE Compliance	RED Health and Safety 2014/53/EU Article 3.1(a) RED 2014/53/EU Article 3.1(b) RED Radio Spectrum 2014/53/EU Article 3.2 EN 60950-1 EN 62479: 2010CE Marked
WEEE Compliant	